

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 40/360 = 0.111$

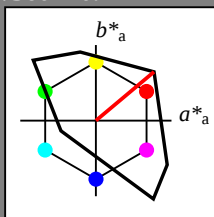
$lab \cdot tch$ and $lab \cdot nch$

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	84.18	19.22	16.13
LAB*LAB	84.18	19.22	16.13
LAB*LAB	84.18	19.22	16.13

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.5	0.5	(1.0)
olv3*	0.25	0.5	0.5	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	60.33	19.23	16.14
LAB*LAB	60.33	19.23	16.14
LAB*LAB	60.33	19.23	16.14

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.5	(1.0)
olv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	0.5	0.5	1.0
olv4*	0.0	0.5	0.5	0.0
olv4*	0.0	0.5	0.5	0.0

standard and adapted CIELAB

LAB*LAB	72.95	38.45	32.27
LAB*LAB	72.95	38.45	32.27
LAB*LAB	72.95	38.45	32.27

relative Inform. Technology (IT)

olv3*	1.0	0.25	0.25	(1.0)
olv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	1.0
olv4*	0.0	0.75	0.75	0.0
olv4*	0.0	0.75	0.75	0.0

standard and adapted CIELAB

LAB*LAB	61.72	57.68	48.41
LAB*LAB	61.72	57.68	48.41
LAB*LAB	61.72	57.68	48.41

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	50.5	76.9	64.54
LAB*LAB	50.5	76.9	64.54
LAB*LAB	50.5	76.9	64.54

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.5	0.5	(1.0)
olv3*	0.25	0.5	0.5	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	84.24	6.57	2.64
LAB*LAB	84.24	6.57	2.64
LAB*LAB	84.24	6.57	2.64

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	85.92	13.13	5.28
LAB*LAB	85.92	13.13	5.28
LAB*LAB	85.92	13.13	5.28

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	81.17	19.7	7.93
LAB*LAB	81.17	19.7	7.93
LAB*LAB	81.17	19.7	7.93

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	76.43	26.26	10.57
LAB*LAB	76.43	26.26	10.57
LAB*LAB	76.43	26.26	10.57

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	60.33	19.23	16.14
LAB*LAB	60.33	19.23	16.14
LAB*LAB	60.33	19.23	16.14

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.5	0.5	1.0
olv4*	0.0	0.5	0.5	0.0
olv4*	0.0	0.5	0.5	0.0

standard and adapted CIELAB

LAB*LAB	49.11	38.46	32.28
LAB*LAB	49.11	38.46	32.28
LAB*LAB	49.11	38.46	32.28

relative Inform. Technology (IT)

olv3*	0.625	0.75	0.75	(1.0)
olv3*	0.375	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	61.72	57.68	48.41
LAB*LAB	61.72	57.68	48.41
LAB*LAB	61.72	57.68	48.41

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	50.5	76.9	64.54
LAB*LAB	50.5	76.9	64.54
LAB*LAB	50.5	76.9	64.54

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	77.81	6.57	2.64
LAB*LAB	77.81	6.57	2.64
LAB*LAB	77.81	6.57	2.64

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	79.49	13.14	5.29
LAB*LAB	79.49	13.14	5.29
LAB*LAB	79.49	13.14	5.29

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	74.25	19.7	7.93
LAB*LAB	74.25	19.7	7.93
LAB*LAB	74.25	19.7	7.93

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	76.43	26.26	10.57
LAB*LAB	76.43	26.26	10.57
LAB*LAB	76.43	26.26	10.57

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	76.43	26.26	10.57
LAB*LAB	76.43	26.26	10.57
LAB*LAB	76.43	26.26	10.57

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0

LAB*TCHa	37.5	25.1	40.0
relative CIELAB lab*			
lab*lab	0.382	0.192	0.161
lab*tch	0.375	0.25	0.111
lab*nch	0.5	0.25	0.111
relative Natural Colour (NC)			
lab*lrj	0.382	0.236	0.084
lab*tce	0.375	0.25	0.054
lab*nce	0.5	0.25	r21j

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.5	0.5	1.0
olv4*	0.0	0.5	0.5	0.0
olv4*	0.0	0.5	0.5	0.0

standard and adapted CIELAB

LAB*LAB	49.11	38.46	32.28
LAB*LAB	49.11	38.46	32.28
LAB*LAB	49.11	38.46	32.28

relative Inform. Technology (IT)

olv3*	0.625	0.75	0.75	(1.0)
olv3*	0.375	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	61.72	57.68	48.41
LAB*LAB	61.72	57.68	48.41
LAB*LAB	61.72	57.68	48.41

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	1.0
olv4*	0.0	0.25	0.25	0.0
olv4*	0.0	0.25	0.25	0.0

standard and adapted CIELAB

LAB*LAB	77.81	
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Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 103/360 = 0.286$

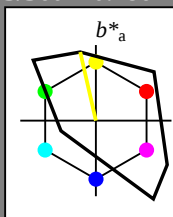
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.00 0.01

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.5 (0.0)
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.00 0.01

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*tce 0.25 0.25 0.25 (0.0)
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.00 0.01

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.5 (0.0)
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.00 0.01

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*tce 0.25 0.25 0.25 (0.0)
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.00 0.01

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.5 (0.0)
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.00 0.01

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*tce 0.25 0.25 0.25 (0.0)
lab*nce 0.0 0.0 0.0

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olv4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 94.03 -10.34 45.37

LAB*LABa 94.03 -10.34 45.37

LAB*LABb 97.50 23.26 102.85

relative CIELAB lab*

lab*lab 0.985 -0.11 0.487

lab*tch 0.75 0.5 0.286

lab*nch 0.0 0.5 0.286

relative Natural Colour (NC)

lab*trj 0.985 -0.116 0.486

lab*tce 0.75 0.5 0.286

lab*nce 0.0 0.5 0.286

standard and adapted CIELAB

LAB*LAB 70.19 -10.34 45.38

LAB*LABa 70.19 -10.34 45.38

LAB*LABb 75.00 23.26 102.85

relative CIELAB lab*

lab*lab 0.736 -0.116 0.486

lab*tch 0.736 -0.116 0.486

lab*nch 0.0 0.5 0.286

relative Natural Colour (NC)

lab*trj 0.736 -0.116 0.486

lab*tce 0.736 -0.116 0.486

lab*nce 0.0 0.5 0.286

standard and adapted CIELAB

LAB*LAB 46.34 -10.34 45.37

LAB*LABa 46.34 -10.34 45.37

LAB*LABb 46.34 -10.34 45.37

relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olv4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 93.34 -15.51 68.05

LAB*LABa 93.34 -15.51 68.05

LAB*LABb 93.34 -15.51 68.05

relative CIELAB lab*

lab*lab 0.978 -0.166 0.731

lab*tch 0.625 0.75 0.286

lab*nch 0.0 0.75 0.286

relative Natural Colour (NC)

lab*trj 0.978 -0.166 0.731

lab*tce 0.625 0.75 0.286

lab*nce 0.0 0.75 0.286

standard and adapted CIELAB

LAB*LAB 92.65 -20.69 90.73

LAB*LABa 92.65 -20.69 90.73

LAB*LABb 92.65 -20.69 90.73

relative CIELAB lab*

lab*lab 0.971 -0.221 0.975

lab*tch 0.5 0.5 0.286

lab*nch 0.0 0.5 0.286

relative Natural Colour (NC)

lab*trj 0.971 -0.221 0.975

lab*tce 0.5 0.5 0.286

lab*nce 0.0 0.5 0.286

standard and adapted CIELAB

LAB*LAB 88.88 0.0 0.0

LAB*LABa 88.88 0.0 0.0

LAB*LABb 88.88 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 88.88 0.0 0.0

LAB*LABa 88.88 0.0 0.0

LAB*LABb 88.88 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 88.88 0.0 0.0

LAB*LABa 88.88 0.0 0.0

LAB*LABb 88.88 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 88.88 0.0 0.0

LAB*LABa 88.88 0.0 0.0

LAB*LABb 88.88 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 88.88 0.0 0.0

LAB*LABa 88.88 0.0 0.0

LAB*LABb 88.88 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 88.88 0.0 0.0

LAB*LABa 88.88 0.0 0.0

LAB*LABb 88.88 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 88.88 0.0 0.0

LAB*LABa 88.88 0.0 0.0

LAB*LABb 88.88 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 0.0 0.0 0.0

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 136/360 = 0.378$

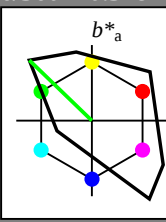
$lab \cdot tch$ and $lab \cdot nch$

D65: hue L

LCH*Ma: 84 115 136

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*LABb 0.01 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 0.5 1.0 0.5 (1.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 89.51 -41.36 39.94
LAB*LABa 89.51 -41.36 39.94
LAB*LABb 87.50 57.51 136.01

relative CIELAB lab*
lab*lab 0.938 -0.359 0.347
lab*tch 0.75 0.5 0.378
lab*nch 0.0 0.5 0.378
relative Natural Colour (NC)
lab*tr 0.938 -0.415 0.278
lab*tce 0.75 0.5 0.406
lab*nce 0.0 0.5 0.628

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 65.67 -41.37 39.95
LAB*LABa 65.67 -41.37 39.95
LAB*LABb 62.50 57.52 136.01

relative CIELAB lab*
lab*lab 0.688 -0.359 0.347
lab*tch 0.5 0.5 0.378
lab*nch 0.0 0.5 0.378
relative Natural Colour (NC)
lab*tr 0.688 -0.415 0.278
lab*tce 0.5 0.5 0.406
lab*nce 0.0 0.5 0.628

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 1.0 0.0 0.5 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.51 -41.36 39.94
LAB*LABa 37.51 -41.36 39.94
LAB*LABb 35.00 57.52 136.01

relative CIELAB lab*
lab*lab 0.469 -0.359 0.347
lab*tch 0.375 0.5 0.378
lab*nch 0.0 0.5 0.378
relative Natural Colour (NC)
lab*tr 0.469 -0.415 0.278
lab*tce 0.375 0.5 0.406
lab*nce 0.0 0.5 0.628

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.5 (0.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 20.92 -20.67 19.97
LAB*LABa 20.92 -20.67 19.97
LAB*LABb 12.50 57.52 136.01

relative CIELAB lab*
lab*lab 0.219 -0.359 0.347
lab*tch 0.125 0.5 0.378
lab*nch 0.0 0.5 0.378
relative Natural Colour (NC)
lab*tr 0.219 -0.415 0.278
lab*tce 0.125 0.5 0.406
lab*nce 0.0 0.5 0.628

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 0.5 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*LABb 0.01 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 142/360 = 0.395$

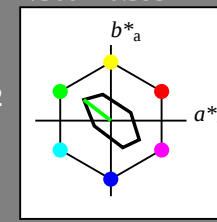
$lab \cdot tch$ and $lab \cdot nch$

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*LABb 0.01 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 0.5 1.0 0.5 (1.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 89.51 -41.36 39.94
LAB*LABa 89.51 -41.36 39.94
LAB*LABb 87.50 57.51 136.01

relative CIELAB lab*
lab*lab 0.938 -0.359 0.347
lab*tch 0.75 0.5 0.378
lab*nch 0.0 0.5 0.378
relative Natural Colour (NC)
lab*tr 0.938 -0.415 0.278
lab*tce 0.75 0.5 0.406
lab*nce 0.0 0.5 0.628

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 65.67 -41.37 39.95
LAB*LABa 65.67 -41.37 39.95
LAB*LABb 62.50 57.52 136.01

relative CIELAB lab*
lab*lab 0.688 -0.359 0.347
lab*tch 0.5 0.5 0.378
lab*nch 0.0 0.5 0.378
relative Natural Colour (NC)
lab*tr 0.688 -0.415 0.278
lab*tce 0.5 0.5 0.406
lab*nce 0.0 0.5 0.628

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 1.0 0.0 0.5 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.51 -41.36 39.94
LAB*LABa 37.51 -41.36 39.94
LAB*LABb 35.00 57.52 136.01

relative CIELAB lab*
lab*lab 0.469 -0.359 0.347
lab*tch 0.375 0.5 0.378
lab*nch 0.0 0.5 0.378
relative Natural Colour (NC)
lab*tr 0.469 -0.415 0.278
lab*tce 0.375 0.5 0.406
lab*nce 0.0 0.5 0.628

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.5 (0.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 20.92 -20.67 19.97
LAB*LABa 20.92 -20.67 19.97
LAB*LABb 12.50 57.52 136.01

relative CIELAB lab*
lab*lab 0.219 -0.359 0.347
lab*tch 0.125 0.5 0.378
lab*nch 0.0 0.5 0.378
relative Natural Colour (NC)
lab*tr 0.219 -0.415 0.278
lab*tce 0.125 0.5 0.406
lab*nce 0.0 0.5 0.628

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 0.5 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*LABb 0.01 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.881 -0.395 0.305
lab*tch 0.75 0.5 0.395
lab*nch 0.0 0.5 0.395
relative Natural Colour (NC)
lab*tr 0.881 -0.45 0.216
lab*tce 0.75 0.5 0.429
lab*nce 0.0 0.5 0.718

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 65.67 -41.37 39.95
LAB*LABa 65.67 -41.37 39.95
LAB*LABb 62.50 57.52 136.01

relative CIELAB lab*
lab*lab 0.625 0.75 0.406
lab*tch 0.5 0.5 0.395
lab*nch 0.0 0.5 0.395
relative Natural Colour (NC)
lab*tr 0.625 0.75 0.429
lab*tce 0.5 0.5 0.718
lab*nce 0.0 0.5 1.14

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 1.0 0.0 0.5 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.51 -41.36 39.94
LAB*LABa 37.51 -41.36 39.94
LAB*LABb 35.00 57.52 136.01

relative CIELAB lab*
lab*lab 0.469 -0.359 0.347
lab*tch 0.375 0.5 0.395
lab*nch 0.0 0.5 0.395
relative Natural Colour (NC)
lab*tr 0.469 -0.415 0.278
lab*tce 0.375 0.5 0.429
lab*nce 0.0 0.5 0.718

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.5 (0.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.5 1.0 0.5 (0.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 20.92 -20.67 19.97
LAB*

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 196/360 = 0.545$

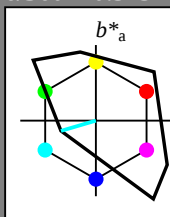
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



$u^*_{rel} = 158$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.00 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.00 0.01

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*LABb 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.14 -23.07 -6.77
LAB*LABa 91.14 -23.07 -6.77
LAB*LABb 91.14 -23.07 -6.77

relative CIELAB lab*
lab*lab 0.955 -0.479 -0.14
lab*tch 0.75 0.5 0.545
lab*nch 0.0 0.5 0.545
relative Natural Colour (NC)
lab*trj 0.955 -0.44 -0.234
lab*tce 0.75 0.5 0.578
lab*nce 0.0 0.5 0.610

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 67.29 -23.08 -6.77
LAB*LABa 67.29 -23.08 -6.77
LAB*LABb 67.29 -23.08 -6.77

relative CIELAB lab*
lab*lab 0.705 -0.479 -0.14
lab*tch 0.5 0.5 0.545
lab*nch 0.0 0.5 0.545
relative Natural Colour (NC)
lab*trj 0.705 -0.44 -0.234
lab*tce 0.5 0.5 0.578
lab*nce 0.0 0.5 0.610

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.16 -34.61 -10.16
LAB*LABa 65.16 -34.61 -10.16
LAB*LABb 65.16 -34.61 -10.16

relative CIELAB lab*
lab*lab 0.683 -0.719 -0.21
lab*tch 0.375 0.5 0.545
lab*nch 0.0 1.0 0.545
relative Natural Colour (NC)
lab*trj 0.683 -0.661 -0.352
lab*tce 0.25 0.75 0.578
lab*nce 0.0 0.75 0.610

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 43.45 -23.07 -6.77
LAB*LABa 43.45 -23.07 -6.77
LAB*LABb 43.45 -23.07 -6.77

relative CIELAB lab*
lab*lab 0.455 -0.479 -0.14
lab*tch 0.25 0.5 0.545
lab*nch 0.0 1.0 0.545
relative Natural Colour (NC)
lab*trj 0.455 -0.44 -0.234
lab*tce 0.25 0.5 0.578
lab*nce 0.0 1.0 0.610

$n^* = 0.50$

$n^* = 0.00$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

$n^* = 1.0$

$n^* = 1.0$

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 198/360 = 0.55$

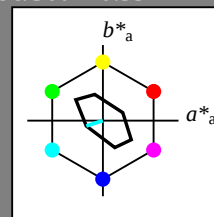
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 91 23 198

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



$u^*_{rel} = 16$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.00 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 67.29 -23.08 -6.77
LAB*LABa 67.29 -23.08 -6.77
LAB*LABb 67.29 -23.08 -6.77

relative CIELAB lab*
lab*lab 0.705 -0.479 -0.14
lab*tch 0.5 0.5 0.545
lab*nch 0.0 0.5 0.545
relative Natural Colour (NC)
lab*trj 0.705 -0.44 -0.234
lab*tce 0.5 0.5 0.578
lab*nce 0.0 0.5 0.610

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.16 -34.61 -10.16
LAB*LABa 65.16 -34.61 -10.16
LAB*LABb 65.16 -34.61 -10.16

relative CIELAB lab*
lab*lab 0.683 -0.719 -0.21
lab*tch 0.375 0.5 0.545
lab*nch 0.0 1.0 0.545
relative Natural Colour (NC)
lab*trj 0.683 -0.661 -0.352
lab*tce 0.25 0.75 0.578
lab*nce 0.0 0.75 0.610

$n^* = 0.00$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

$n^* = 1.0$

$n^* = 1.0$

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.14 -23.07 -6.77
LAB*LABa 91.14 -23.07 -6.77
LAB*LABb 91.14 -23.07 -6.77

relative CIELAB lab*
lab*lab 0.913 -0.475 -0.152
lab*tch 0.75 0.5 0.55
lab*nch 0.0 0.5 0.55
relative Natural Colour (NC)
lab*trj 0.913 -0.435 -0.244
lab*tce 0.75 0.5 0.581
lab*nce 0.0 0.5 0.620

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 67.29 -23.08 -6.77
LAB*LABa 67.29 -23.08 -6.77
LAB*LABb 67.29 -23.08 -6.77

relative CIELAB lab*
lab*lab 0.705 -0.475 -0.152
lab*tch 0.5 0.5 0.55
lab*nch 0.0 0.5 0.55
relative Natural Colour (NC)
lab*trj 0.705 -0.435 -0.244
lab*tce 0.5 0.5 0.581
lab*nce 0.0 0.5 0.620

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.16 -34.61 -10.16
LAB*LABa 65.16 -34.61 -10.16
LAB*LABb 65.16 -34.61 -10.16

relative CIELAB lab*
lab*lab 0.683 -0.719 -0.21
lab*tch 0.375 0.5 0.545
lab*nch 0.0 1.0 0.545
relative Natural Colour (NC)
lab*trj 0.683 -0.661 -0.352
lab*tce 0.25 0.75 0.578
lab*nce 0.0 0.75 0.610

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 43.45 -23.07 -6.77
LAB*LABa 43.45 -23.07 -6.77
LAB*LABb 43.45 -23.07 -6.77

relative CIELAB lab*
lab*lab 0.455 -0.475 -0.152
lab*tch 0.25 0.5 0.55
lab*nch 0.0 1.0 0.55
relative Natural Colour (NC)
lab*trj 0.455 -0.435 -0.244
lab*tce 0.25 0.5 0.581
lab*nce 0.0 1.0 0.620

$n^* = 0.00$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

$n^* = 1.0$

$n^* = 1.0$

NE530-7, 5 step scales for constant CIELAB hue 196/360 = 0.545 (left)

5 step scales for constant CIELAB hue 198/360 = 0.55 (right)

BAM-test chart NE53; Colorimetric systems ORS18 & ORS18

D65: 2 coordinate data of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`

output: `Startup (S) data dependend`

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 328/360 = 0.912$

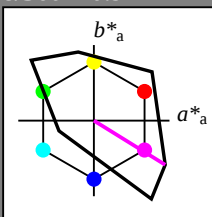
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 57 111 328

ol v^* Ma: 1.0 0.0 1.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)			
ol v^*_3	1.0	1.0	1.0
ol v^*_4	0.0	0.0	0.0
ol v^*_5	0.0	0.0	0.0
ol v^*_6	0.0	0.0	0.0
ol v^*_7	0.0	0.0	0.0
ol v^*_8	0.0	0.0	0.0
ol v^*_9	0.0	0.0	0.0
ol v^*_{10}	0.0	0.0	0.0
ol v^*_{11}	0.0	0.0	0.0
ol v^*_{12}	0.0	0.0	0.0
ol v^*_{13}	0.0	0.0	0.0
ol v^*_{14}	0.0	0.0	0.0
ol v^*_{15}	0.0	0.0	0.0
ol v^*_{16}	0.0	0.0	0.0
ol v^*_{17}	0.0	0.0	0.0
ol v^*_{18}	0.0	0.0	0.0
ol v^*_{19}	0.0	0.0	0.0
ol v^*_{20}	0.0	0.0	0.0
ol v^*_{21}	0.0	0.0	0.0
ol v^*_{22}	0.0	0.0	0.0
ol v^*_{23}	0.0	0.0	0.0
ol v^*_{24}	0.0	0.0	0.0
ol v^*_{25}	0.0	0.0	0.0
ol v^*_{26}	0.0	0.0	0.0
ol v^*_{27}	0.0	0.0	0.0
ol v^*_{28}	0.0	0.0	0.0
ol v^*_{29}	0.0	0.0	0.0
ol v^*_{30}	0.0	0.0	0.0
ol v^*_{31}	0.0	0.0	0.0
ol v^*_{32}	0.0	0.0	0.0
ol v^*_{33}	0.0	0.0	0.0
ol v^*_{34}	0.0	0.0	0.0
ol v^*_{35}	0.0	0.0	0.0
ol v^*_{36}	0.0	0.0	0.0
ol v^*_{37}	0.0	0.0	0.0
ol v^*_{38}	0.0	0.0	0.0
ol v^*_{39}	0.0	0.0	0.0
ol v^*_{40}	0.0	0.0	0.0
ol v^*_{41}	0.0	0.0	0.0
ol v^*_{42}	0.0	0.0	0.0
ol v^*_{43}	0.0	0.0	0.0
ol v^*_{44}	0.0	0.0	0.0
ol v^*_{45}	0.0	0.0	0.0
ol v^*_{46}	0.0	0.0	0.0
ol v^*_{47}	0.0	0.0	0.0
ol v^*_{48}	0.0	0.0	0.0
ol v^*_{49}	0.0	0.0	0.0
ol v^*_{50}	0.0	0.0	0.0
ol v^*_{51}	0.0	0.0	0.0
ol v^*_{52}	0.0	0.0	0.0
ol v^*_{53}	0.0	0.0	0.0
ol v^*_{54}	0.0	0.0	0.0
ol v^*_{55}	0.0	0.0	0.0
ol v^*_{56}	0.0	0.0	0.0
ol v^*_{57}	0.0	0.0	0.0
ol v^*_{58}	0.0	0.0	0.0
ol v^*_{59}	0.0	0.0	0.0
ol v^*_{60}	0.0	0.0	0.0
ol v^*_{61}	0.0	0.0	0.0
ol v^*_{62}	0.0	0.0	0.0
ol v^*_{63}	0.0	0.0	0.0
ol v^*_{64}	0.0	0.0	0.0
ol v^*_{65}	0.0	0.0	0.0
ol v^*_{66}	0.0	0.0	0.0
ol v^*_{67}	0.0	0.0	0.0
ol v^*_{68}	0.0	0.0	0.0
ol v^*_{69}	0.0	0.0	0.0
ol v^*_{70}	0.0	0.0	0.0
ol v^*_{71}	0.0	0.0	0.0
ol v^*_{72}	0.0	0.0	0.0
ol v^*_{73}	0.0	0.0	0.0
ol v^*_{74}	0.0	0.0	0.0
ol v^*_{75}	0.0	0.0	0.0
ol v^*_{76}	0.0	0.0	0.0
ol v^*_{77}	0.0	0.0	0.0
ol v^*_{78}	0.0	0.0	0.0
ol v^*_{79}	0.0	0.0	0.0
ol v^*_{80}	0.0	0.0	0.0
ol v^*_{81}	0.0	0.0	0.0
ol v^*_{82}	0.0	0.0	0.0
ol v^*_{83}	0.0	0.0	0.0
ol v^*_{84}	0.0	0.0	0.0
ol v^*_{85}	0.0	0.0	0.0
ol v^*_{86}	0.0	0.0	0.0
ol v^*_{87}	0.0	0.0	0.0
ol v^*_{88}	0.0	0.0	0.0
ol v^*_{89}	0.0	0.0	0.0
ol v^*_{90}	0.0	0.0	0.0
ol v^*_{91}	0.0	0.0	0.0
ol v^*_{92}	0.0	0.0	0.0
ol v^*_{93}	0.0	0.0	0.0
ol v^*_{94}	0.0	0.0	0.0
ol v^*_{95}	0.0	0.0	0.0
ol v^*_{96}	0.0	0.0	0.0
ol v^*_{97}	0.0	0.0	0.0
ol v^*_{98}	0.0	0.0	0.0
ol v^*_{99}	0.0	0.0	0.0
ol v^*_{100}	0.0	0.0	0.0

relative Inform. Technology (IT)			
ol v^*_3	1.0	0.75	1.0
ol v^*_4	0.0	0.25	0.0
ol v^*_5	0.0	0.75	1.0
ol v^*_6	0.0	0.25	0.0
ol v^*_7	0.0	0.75	1.0
ol v^*_8	0.0	0.25	0.0
ol v^*_9	0.0	0.75	1.0
ol v^*_{10}	0.0	0.25	0.0
ol v^*_{11}	0.0	0.75	1.0
ol v^*_{12}	0.0	0.25	0.0
ol v^*_{13}	0.0	0.75	1.0
ol v^*_{14}	0.0	0.25	0.0
ol v^*_{15}	0.0	0.75	1.0
ol v^*_{16}	0.0	0.25	0.0
ol v^*_{17}	0.0	0.75	1.0
ol v^*_{18}	0.0	0.25	0.0
ol v^*_{19}	0.0	0.75	1.0
ol v^*_{20}	0.0	0.25	0.0
ol v^*_{21}	0.0	0.75	1.0
ol v^*_{22}	0.0	0.25	0.0
ol v^*_{23}	0.0	0.75	1.0
ol v^*_{24}	0.0	0.25	0.0
ol v^*_{25}	0.0	0.75	1.0
ol v^*_{26}	0.0	0.25	0.0
ol v^*_{27}	0.0	0.75	1.0
ol v^*_{28}	0.0	0.25	0.0
ol v^*_{29}	0.0	0.75	1.0
ol v^*_{30}	0.0	0.25	0.0
ol v^*_{31}	0.0	0.75	1.0
ol v^*_{32}	0.0	0.25	0.0
ol v^*_{33}	0.0	0.75	1.0
ol v^*_{34}	0.0	0.25	0.0
ol v^*_{35}	0.0	0.75	1.0
ol v^*_{36}	0.0	0.25	0.0
ol v^*_{37}	0.0	0.75	1.0
ol v^*_{38}	0.0	0.25	0.0
ol v^*_{39}	0.0	0.75	1.0
ol v^*_{40}	0.0	0.25	0.0
ol v^*_{41}	0.0	0.75	1.0
ol v^*_{42}	0.0	0.25	0.0
ol v^*_{43}	0.0	0.75	1.0
ol v^*_{44}	0.0	0.25	0.0
ol v^*_{45}	0.0	0.75	1.0
ol v^*_{46}	0.0	0.25	0.0
ol v^*_{47}	0.0	0.75	1.0
ol v^*_{48}	0.0	0.25	0.0
ol v^*_{49}	0.0	0.75	1.0
ol v^*_{50}	0.0	0.25	0.0
ol v^*_{51}	0.0	0.75	1.0
ol v^*_{52}	0.0	0.25	0.0
ol v^*_{53}	0.0	0.75	1.0
ol v^*_{54}	0.0	0.25	0.0
ol v^*_{55}	0.0	0.75	1.0
ol v^*_{56}	0.0	0.25	0.0
ol v^*_{57}	0.0	0.75	1.0
ol v^*_{58}	0.0	0.25	0.0
ol v^*_{59}	0.0	0.75	1.0
ol v^*_{60}	0.0	0.25	0.0
ol v^*_{61}	0.0	0.75	1.0
ol v^*_{62}	0.0	0.25	0.0
ol v^*_{63}	0.0	0.75	1.0
ol v^*_{64}	0.0	0.25	0.0
ol v^*_{65}	0.0	0.75	1.0
ol v^*_{66}	0.0	0.25	0.0
ol v^*_{67}	0.0	0.75	1.0
ol v^*_{68}	0.0	0.25	0.0
ol v^*_{69}	0.0	0.75	1.0
ol v^*_{70}	0.0	0.25	0.0
ol v^*_{71}	0.0	0.75	1.0
ol v^*_{72}	0.0	0.25	0.0
ol v^*_{73}	0.0	0.75	1.0
ol v^*_{74}	0.0	0.25	0.0
ol v^*_{75}	0.0	0.75	1.0
ol v^*_{76}	0.0	0.25	0.0
ol v^*_{77}	0.0	0.75	1.0
ol v^*_{78}	0.0	0.25	0.0
ol v^*_{79}	0.0	0.75	1.0
ol v^*_{80}	0.0	0.25	0.0
ol v^*_{81}	0.0	0.75	1.0
ol v^*_{82}	0.0	0.25	0.0
ol v^*_{83}	0.0	0.75	1.0
ol v^*_{84}	0.0	0.25	0.0
ol v^*_{85}	0.0	0.75	1.0
ol v^*_{86}	0.0	0.25	0.0
ol v^*_{87}	0.0	0.75	1.0
ol v^*_{88}	0.0	0.25	0.0
ol v^*_{89}	0.0	0.75	1.0
ol v^*_{90}	0.0	0.25	0.0
ol v^*_{91}	0.0	0.75	1.0
ol v^*_{92}	0.0	0.25	0.0
ol v^*_{93}	0.0	0.75	1.0
ol v^*_{94}	0.0	0.25	0.0
ol v^*_{95}	0.0	0.75	1.0
ol v^*_{96}	0.0	0.25	0.0
ol v^*_{97}	0.0	0.75	1.0
ol v^*_{98}	0.0	0.25	0.0
ol v^*_{99}	0.0	0.75	1.0
ol v^*_{100}	0.0	0.25	0.0

relative Inform. Technology (IT)			
olvi3*	1.0	0.5	1.0 (1.0)
cmyn3*	0.0	0.5	0.0 (0.0)
olvi4*	1.0	0.5	1.0
cmyn4*	0.0	0.5	0.0
standard and adapted CIELAB			
LAB*LAB	76.35	47.17	-29.19
LAB*LABa	76.35	47.17	-29.19

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 25/360 = 0.071$

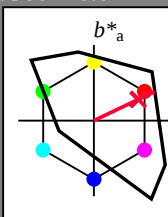
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.21

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)

relative Natural Colour (NC)

lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv3*	1.0	1.0	1.0	(0.0)
olv3*	0.0	0.0	0.0	(0.0)
olv3*	0.0	0.0	0.0	(0.0)
olv3*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv3*	1.0	1.0	1.0	(0.0)
olv3*	0.0	0.0	0.0	(0.0)
olv3*	0.0	0.0	0.0	(0.0)
olv3*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.5	(1.0)
olv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.5	0.5	(0.0)
olv4*	0.0	0.5	0.5	(0.0)
olv4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	73.67	40.3	19.2
LAB*LAB	73.67	40.3	19.2
LAB*LAB	73.67	40.3	19.2
LAB*LAB	73.67	40.3	19.2

relative CIELAB lab*

lab*lab	0.72	0.451	0.215
lab*lab	0.72	0.451	0.215
lab*lab	0.72	0.451	0.215
lab*lab	0.72	0.451	0.215

relative Natural Colour (NC)

lab*lab	0.72	0.451	0.215
lab*lab	0.72	0.451	0.215
lab*lab	0.72	0.451	0.215
lab*lab	0.72	0.451	0.215

relative Inform. Technology (IT)

olv3*	1.0	0.25	0.409	(1.0)
olv3*	0.0	0.25	0.409	(0.0)
olv4*	1.0	0.25	0.409	(1.0)
olv4*	0.0	0.25	0.409	(0.0)
olv4*	0.0	0.25	0.409	(0.0)
olv4*	0.0	0.25	0.409	(0.0)

standard and adapted CIELAB

LAB*LAB	62.81	60.46	28.81
LAB*LAB	62.81	60.46	28.81
LAB*LAB	62.81	60.46	28.81
LAB*LAB	62.81	60.46	28.81

relative CIELAB lab*

lab*lab	0.58	0.677	0.323
lab*lab	0.58	0.677	0.323
lab*lab	0.58	0.677	0.323
lab*lab	0.58	0.677	0.323

relative Natural Colour (NC)

lab*lab	0.58	0.677	0.323
lab*lab	0.58	0.677	0.323
lab*lab	0.58	0.677	0.323
lab*lab	0.58	0.677	0.323

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.213	(1.0)
olv3*	0.0	0.0	0.213	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.213	(0.0)
olv4*	0.0	0.0	0.213	(0.0)
olv4*	0.0	0.0	0.213	(0.0)

standard and adapted CIELAB

LAB*LAB	51.94	80.61	38.42
LAB*LAB	51.94	80.61	38.42
LAB*LAB	51.94	80.61	38.42
LAB*LAB	51.94	80.61	38.42

relative CIELAB lab*

lab*lab	0.54	0.903	0.43
lab*lab	0.54	0.903	0.43
lab*lab	0.54	0.903	0.43
lab*lab	0.54	0.903	0.43

relative Natural Colour (NC)

lab*lab	0.54	0.903	0.43
lab*lab	0.54	0.903	0.43
lab*lab	0.54	0.903	0.43
lab*lab	0.54	0.903	0.43

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.5	0.5	(0.0)
olv4*	0.0	0.5	0.5	(0.0)
olv4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0

relative CIELAB lab*

lab*lab	0.52	0.62	0.226	0.108
lab*lab	0.52	0.62	0.226	0.108
lab*lab	0.52	0.62	0.226	0.108
lab*lab	0.52	0.62	0.226	0.108

relative Natural Colour (NC)

lab*lab	0.52	0.62	0.226	0.108
lab*lab	0.52	0.62	0.226	0.108
lab*lab	0.52	0.62	0.226	0.108
lab*lab	0.52	0.62	0.226	0.108

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.75	0.75	(0.0)
olv4*	0.0	0.75	0.75	(0.0)
olv4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.358	(1.0)
olv3*	0.0	0.25	0.358	(0.0)
olv4*	1.0	0.75	0.803	(1.0)
olv4*	0.0	0.25	0.358	(0.0)
olv4*	0.0	0.25	0.358	(0.0)
olv4*	0.0	0.25	0.358	(0.0)

standard and adapted CIELAB

LAB*LAB	60.69	20.16	9.6
LAB*LAB	60.69	20.16	9.6
LAB*LAB	60.69	20.16	9.6
LAB*LAB	60.69	20.16	9.6

relative CIELAB lab*

lab*lab	0.62	0.75	0.1
lab*lab	0.62	0.75	0.1
lab*lab	0.62	0.75	0.1
lab*lab	0.62	0.75	0.1

relative Natural Colour (NC)

lab*lab	0.62	0.75	0.1
lab*lab	0.62	0.75	0.1
lab*lab	0.62	0.75	0.1
lab*lab	0.62	0.75	0.1

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.213	(1.0)
cmyn3*	0.0	1.0	0.787	(0.0)
olv4*	1.0	0.0	0.213	1.0
cmyn4*	0.0	1.0	0.787	0.0

standard and adapted CIELAB

LAB*LAB	51.94	80.61	38.42
LAB*LABa	51.94	80.61	38.42

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 92/360 = 0.256$

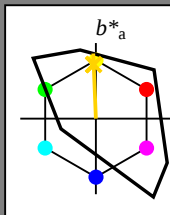
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*TCa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	0.0
lab*nce	0.0	0.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	71.57	0.0	0.0
LAB*Lab	71.57	0.0	0.0
LAB*TCa	75.00	0.01	-

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*tch	0.75	0.0	0.0
lab*nch	0.75	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.75	0.0	0.0
lab*tce	0.75	0.0	0.0
lab*nce	0.75	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*Lab	47.72	0.0	0.0
LAB*TCa	50.00	0.01	-

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*tch	0.25	0.0	0.0
lab*nch	0.25	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.25	0.0	0.0
lab*tce	0.25	0.0	0.0
lab*nce	0.25	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	23.87	0.0	0.0
LAB*Lab	23.87	0.0	0.0
LAB*TCa	25.00	0.01	-

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*tch	0.25	0.0	0.0
lab*nch	0.25	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.25	0.0	0.0
lab*tce	0.25	0.0	0.0
lab*nce	0.25	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.03	0.0	0.0
LAB*Lab	0.03	0.0	0.0
LAB*TCa	0.00	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	1.0

$n^* = 1.0$

relative Inform. Technology (IT)

olv3*	1.0	0.956	0.75	(1.0)
cmyn3*	0.0	0.044	0.25	(0.0)
olv4*	1.0	0.956	0.75	(1.0)
cmyn4*	0.0	0.044	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	92.86	-0.87	21.53
LAB*Lab	92.86	-0.87	21.53
LAB*TCa	97.5	21.54	92.33

relative CIELAB lab*

lab*lab	0.973	-0.009	0.25
lab*tch	0.875	0.25	0.256
lab*nch	0.0	0.25	0.256

relative Natural Colour (NC)

lab*trj	0.973	0.0	0.25
lab*tce	0.875	0.25	0.25
lab*nce	0.0	0.25	0.256

relative Inform. Technology (IT)

olv3*	0.75	0.706	0.5	(1.0)
cmyn3*	0.25	0.284	0.5	(0.0)
olv4*	1.0	0.956	0.75	(0.75)
cmyn4*	0.0	0.044	0.25	(0.25)

standard and adapted CIELAB

LAB*LAB	69.01	-0.86	21.53
LAB*Lab	69.01	-0.86	21.53
LAB*TCa	62.5	21.55	92.31

relative CIELAB lab*

lab*lab	0.75	-0.009	0.25
lab*tch	0.625	0.25	0.256
lab*nch	0.25	0.25	0.256

relative Natural Colour (NC)

lab*trj	0.723	0.0	0.25
lab*tce	0.625	0.25	0.25
lab*nce	0.25	0.25	0.256

relative Inform. Technology (IT)

olv3*	0.5	0.412	0.1	(1.0)
cmyn3*	0.5	0.444	0.5	(0.0)
olv4*	1.0	0.956	0.75	(0.5)
cmyn4*	0.0	0.044	0.25	(0.5)

standard and adapted CIELAB

LAB*LAB	45.16	-0.86	21.53
LAB*Lab	45.16	-0.86	21.53
LAB*TCa	37.5	21.55	92.31

relative CIELAB lab*

lab*lab	0.473	-0.009	0.25
lab*tch	0.375	0.25	0.256
lab*nch	0.25	0.25	0.256

relative Natural Colour (NC)

lab*trj	0.473	0.0	0.25
lab*tce	0.375	0.25	0.25
lab*nce	0.5	0.25	0.256

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	21.31	-0.86	21.52
LAB*Lab	21.31	-0.86	21.52
LAB*TCa	12.5	21.54	92.31

relative CIELAB lab*

lab*lab	0.223	-0.009	0.25
lab*tch	0.125	0.25	0.256
lab*nch	0.25	0.25	0.256

relative Natural Colour (NC)

lab*trj	0.223	0.0	0.25
lab*tce	0.125	0.25	0.25
lab*nce	0.75	0.25	0.256

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*Lab	0.0	0.0	0.0
LAB*TCa	0.00	0.01	-

$n^* = 0.50$

TLS00; adapted (a) CIELAB data

$L^* = L^*_a$ a^*_a b^*_a $C^*_{ab,a}$ $h^*_{ab,a}$

O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
BC _{IE}	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)

olv3*	1.0	0.912	0.5	(1.0)
cmyn3*	0.0	0.088	0.5	(0.0)
olv4*	1.0	0.912	0.5	(1.0)
cmyn4*	0.0	0.088	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	90.31	-1.74	43.06
LAB*Lab	90.31	-1.74	43.06
LAB*TCa	75.0	43.09	92.32

relative CIELAB lab*

lab*lab	0.947	-0.019	0.499
lab*tch	0.75	0.5	0.256
lab*nch	0.0	0.5	0.256

relative Natural Colour (NC)

lab*trj	0.947	0.0	0.5
lab*tce	0.75	0.5	0.25
lab*nce	0.0	0.5	0.256

relative Inform. Technology (IT)

olv3*	0.75	0.662	0.25	(1.0)
cmyn3*	0.25	0.338	0.75	(0.0)
olv4*	1.0	0.912	0.5	(0.75)
cmyn4*	0.0	0.088	0.5	(0.25)

standard and adapted CIELAB

LAB*LAB	66.47	-1.73	43.06
LAB*Lab	66.47	-1.73	43.06
LAB*TCa	50.0	43.1	92.31

relative CIELAB lab*

lab*lab	0.697	-0.019	0.5
lab*tch	0.5	0.5	0.256
lab*nch	0.0	0.5	0.256

relative Natural Colour (NC)

lab*trj	0.697	0.0	0.5
lab*tce	0.625	0.75	0.25
lab*nce	0.25	0.5	0.256

relative Inform. Technology (IT)

olv3*	0.5	0.412	0.1	(1.0)
cmyn3*	0.5	0.444	0.5	(0.0)
olv4*	1.0	0.912	0.5	(0.75)
cmyn4*	0.0	0.088	0.5	(0.25)

standard and adapted CIELAB

LAB*LAB	42.62	-1.73	43.06
LAB*Lab	42.62	-1.73	43.06
LAB*TCa	37.51	43.09	92.31

relative CIELAB lab*

lab*lab	0.67	-0.029	0.749
lab*tch	0.375	0.75	0.256
lab*nch	0.25	0.75	0.256

relative Natural Colour (NC)

lab*trj	0.67	0.0	0.75
lab*tce	0.375	0.75	0.25
lab*nce	0.25	0.75	0.256

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	25.01	-0.86	21.52
LAB*Lab	25.01	-0.86	21.52
LAB*TCa	12.5	21.54	92.31

relative CIELAB lab*

lab*lab	0.447	-0.019	0.499
lab*tch	0.25	0.5	0.256
lab*nch	0.25	0.5	0.256

relative Natural Colour (NC)

lab*trj	0.447	0.0	0.5
lab*tce	0.25	0.5	0.25
lab*nce	0.5	0.5	0.256

$n^* = 0.25$

$n^* = 0.00$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

chromaticness c^*

$c^* = 0.25$

$c^* = 0.50$

$c^* = 0.75$

$c^* = 1.0$

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 92/360 = 0.256$

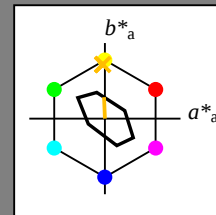
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*TCa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	0.0
lab*nce	0.0	0.0	1.0

relative	Inform. Technology (IT)			
olv3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	0.75
cmyn4*	0.0	0.0	0.0	0.25
standard and adapted CIELAB				
LAB*LAB	88.98	0.0	0.0	
LAB*LABa	88.98	0.0	0.0	

